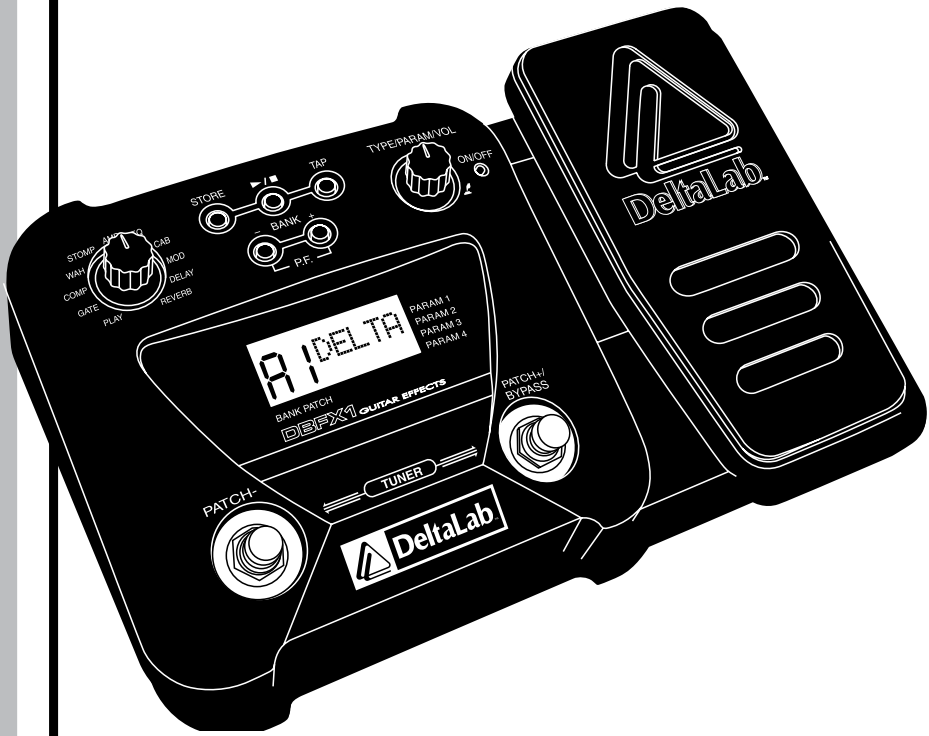
DeltaLab

DBFX1

User's Manual

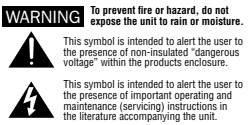


Bass Multi-Effects Pedal

Important Safeguards

For your protection, please read these safety Instructions completely before operating the appliance, and keep this manual for future reference Carefully observe all warnings, precautions and instructions on the appliance and described in the operating instructions supplied with the appliance.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE CHASSIS. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.


WARNING
To prevent fire or hazard, do not expose the unit to rain or moisture.
This symbol is intended to alert the user to the presence of non-insulated "dangerous voltage" within the products enclosure.
This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the unit.

- Keep away from children. In households with small children, an adult should provide supervision until the child is capable of following all the rules essential for safe operation of the unit. All cords and cables should be placed so they are out of reach of children.

- Do not use this product near water, such as in or near a bathtub, sink, wet basement, swimming pool, or in the rain. Never handle the AC adaptor with wet hands.

- Do not use this product in areas subject to temperature extremes, such as in direct sunlight in an enclosed space, near a heat source, or on heat-generating equipment.

- This product and any AC adaptor should be located so that they do not interfere with proper ventilation.

- Connect this product only to a power supply described in the operating instructions or as marked on the unit. When using batteries, carefully follow the installation instructions and make sure you observe the proper polarity. If used improperly, batteries may explode or leak, causing damage or injury. Check to make sure that the AC receptacle holds the power cord plug securely. If the power cord plug is loose or damaged, contact your electrician to replace the defective and unsafe power cord.

- Place the power cord so that it is not likely to be walked on or pinched by having objects placed on it. Prevent cords and cables from becoming entangled. Do not use the power supply cord in an outlet with an unreasonable number of other devices. Excessive loads can cause the insulation on the cord to heat up and eventually melt.

- Do not defeat the grounding or polarization feature of the AC power cord. If your AC receptacle will not accept the power cord plug, contact your electrician to install a proper AC receptacle.

- When left unused for an extended period of time, unplug the power cord from the outlet and remove the batteries. To disconnect the power cord, pull it out by grasping the plug. Never pull the plug out by the cord.

- Be careful that foreign objects and liquids do not enter the enclosure.

- Unplug the unit before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning and allow the unit to dry before plugging it in.

- Before using this unit in a foreign country, consult with your retailer or the manufacturer.

- Do not open or modify the unit or the AC adaptor. Unplug the unit and consult qualified service personnel when:

  - the power cord or the plug has been damaged
  - an object or liquid has fallen into the unit
  - the unit has been exposed to moisture
  - the unit does not appear to be operating normally or exhibits a change in performance
  - the unit has been dropped or damaged

- Do not attempt to repair or service the product beyond what is described in the operating instructions. For all other servicing, refer to qualified service personnel.

FCC statement

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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Introduction

Congratulations on your purchase of the DBFX1 Bass Multi-Effects Processor, an advanced multi-effects pedal with built-in drum machine.

To get the most out of your new pedal, we recommend you read this manual carefully and keep it for future reference.

Main Features

- 54 built-in effects
- Simultaneous use of up to 11 effects
- 48 user patches, 48 factory settings
- Expression pedal controls volume, wah and 8 other parameters.
- Built-in drum machine
- User-friendly interface with simple parameter adjustments

Important Safety Notes

Power Supply

To avoid damage, please make sure that all power devices (such as amplifiers) are turned off before connecting the DBFX1.

If an AC adapter is used, it should be unplugged from the AC outlet if the instrument will not be used for an extended period of time.

Avoid using this unit on the same electrical circuit with other appliances that may generate line noises.

Handling and Transportation

Grab the unit firmly while plugging in or unplugging cables.

Physical shocks caused by dropping, bumping, or placing heavy objects on top of DBFX1 can result in scratches or more severe damage.

Never apply excessive force to controls, connectors, or other parts.

Strong vibrations and shocks will damage the DBFX1.

Location

To minimize interference, do not place this unit close to heat sources such as radiators and amplifiers.

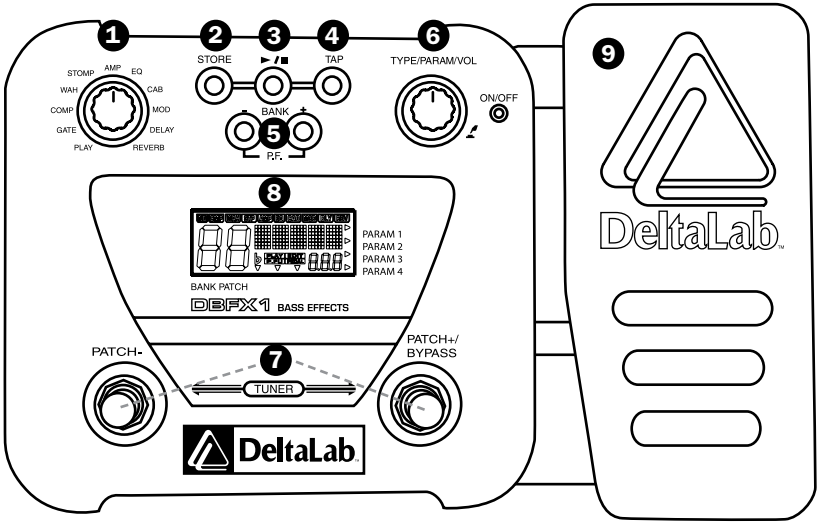
Do not expose the DBFX1 to excessive sunlight or moisture.

Cleaning

Clean the DBFX1 with a soft, dry cloth. To remove more stubborn dirt, use a slightly dampened cloth with mild detergent.

Never attempt to clean the DBFX1 with thinners or alcohol.

Front Panel



1 EFFECT SELECTION Knob
Selects the effect and various parameters.

2 STORE Button
Saves your settings.

3 ▶/■ Button
Controls rhythm playback.

4 TAP Button
Adjusts rhythm tempo.

5 BANK +/– Buttons
Selects bank number and enters patch function.

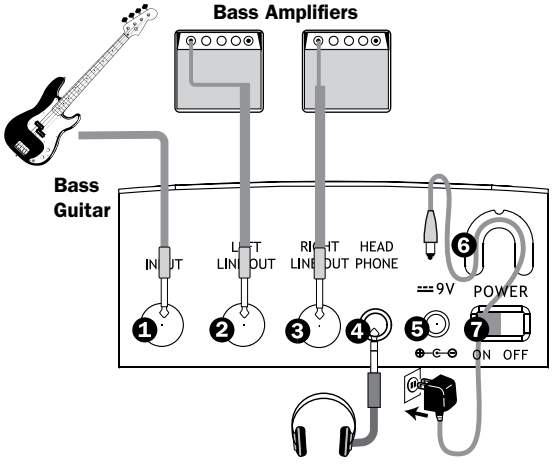
6 TYPE/PARAM/VOL Knob
Adjusts effect type, parameters, and volume.

7 PATCH +/– Foot Switches
Selects patches, switches effect modules on and off, controls tuner and other functions.

8 LCD Display
Displays current information and bank number.

9 Expression Pedal
Adjusts the volume and various parameters in real-time.

Rear Panel/Connections



1 INPUT Jack
Connect your bass to this jack.

2 LEFT LINE OUTPUT
Connect your bass amplifier to this jack.

3 RIGHT LINE OUTPUT
Connect a second bass amplifier to this jack for stereo effects.

4 HEADPHONE Jack

5 DC IN Jack
Connect the AC adapter (9V, 300mA) to this jack.

6 CORD Hook
Hook the AC adapter cord here to prevent the adapter from disconnecting.

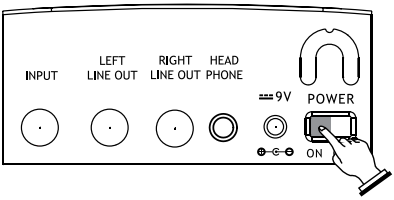
7 POWER Switch
Turns power on and off.

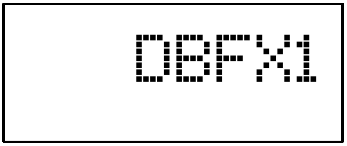
NOTES:

- *Before connecting to the AC IN jacks, fasten the cord of the AC adapter around the hook as shown in the diagram. This will prevent the plug from being disconnected if the cord is accidentally pulled.*
- *To prevent malfunction and/or damage to speakers or other devices, always turn down the volume of the DBFX1 and turn all devices off before connecting cables.*
- *If you turn on the DBFX1 while the amplifier is already powered up, damage to the speaker may result. Always turn amplifiers off before connecting cables.*

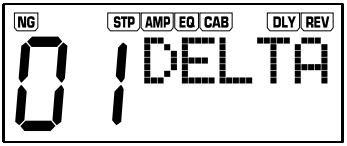
Power Supply

1. Connect all cables.
2. Switch on the DBFX1.
3. After the power is on, the LCD will display "DBFX1" followed by any previously saved patch and effects chain.





BANK PATCH



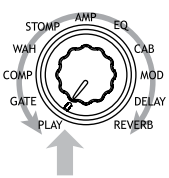
BANK PATCH

Patches

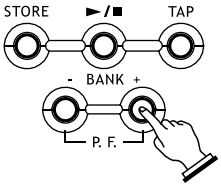
NOTE: The unit has up to 96 patches: 48 default settings (0–1 and 7–6), and 48 user patches (A–1 and H–6).

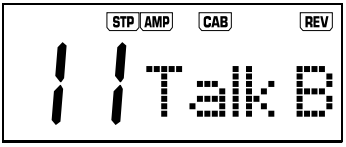
How to Select a Patch

1. Set the EFFECT SELECTION knob button to PLAY.
2. Use BANK– or BANK+ button to select a bank number. The LCD displays the current bank number (0–7 and A–H) with the relevant tone name and effect chain.



Set to PLAY



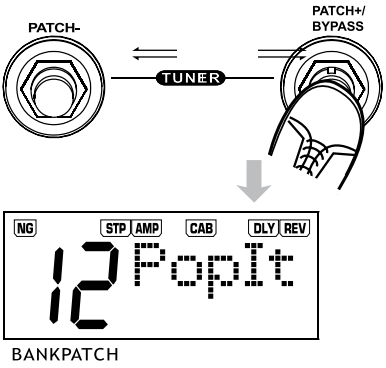


BANKPATCH

NOTE: The PLAY mode will be automatically selected after you turn the unit on, even if the knob has been set to a position other than PLAY.

3. Press the PATCH +/- to select the PATCH. Press and hold PATCH +/- again to change patches.

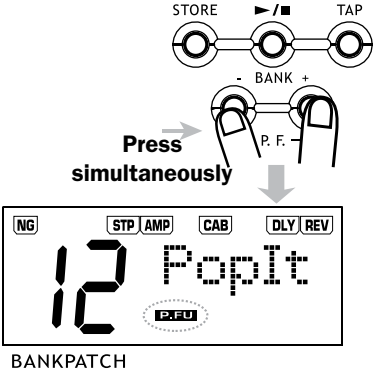
   The screen displays the current patch number (1–6) with the relevant tone name and effect chain.



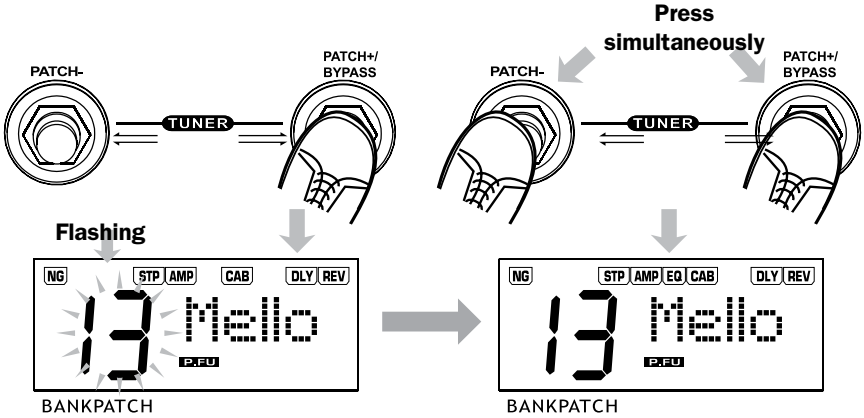
Patch Function

1. Press the BANK– and BANK+ buttons simultaneously to activate the patch function.

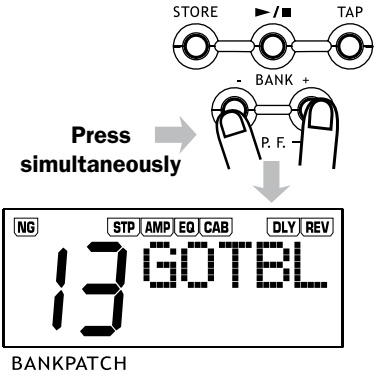
   At the same time, the indicator 'P.FU' will be displayed.



2. Press PATCH+/- or BANK+/- to change the patch display. The patch number flashes until you press the PATCH+ and PATCH- switches simultaneously to select the patch.



❸ Then press BANK– and BANK+ simultaneously to disable the patch function. The 'P.FU' symbol will disappear.



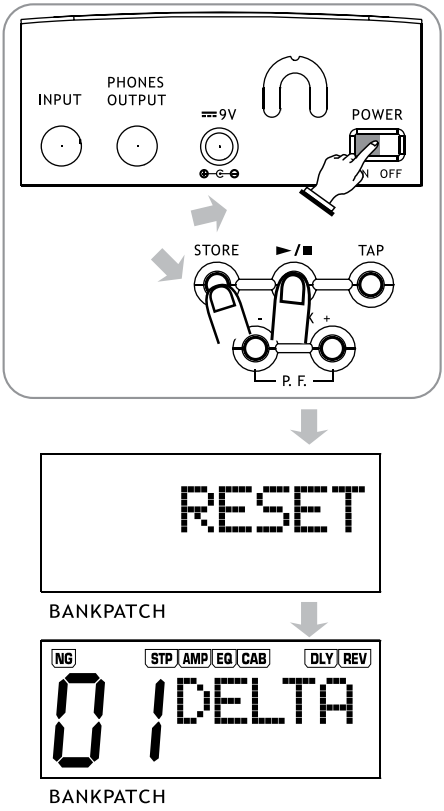
Factory Reset

NOTE: The 48 user patches start as duplicates of the 48 default patches.

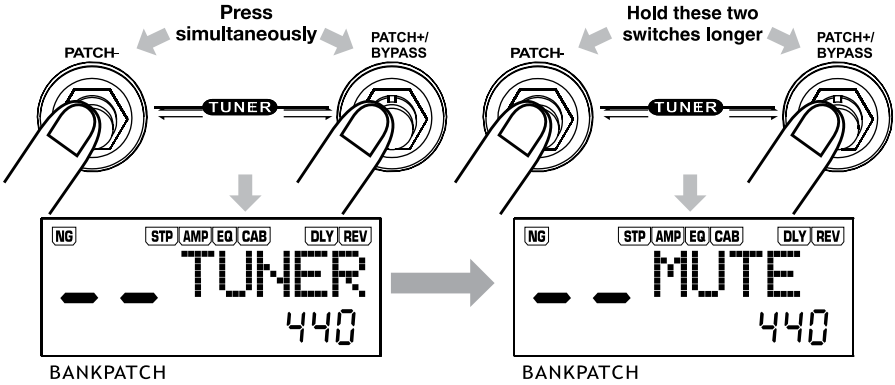
❶ Turn off the power.

❷ Hold down STORE and ►/■ Buttons simultaneously, then turn on the power. The screen displays 'RESET' until the reset process is finished. When finished, the display window will show '01' tone, its name, and the effects chain.

WARNING: Using the factory reset function will wipe out all user data!



TUNER / EFFECTS BYPASS



1. Set the effect selection knob to 'PLAY'.

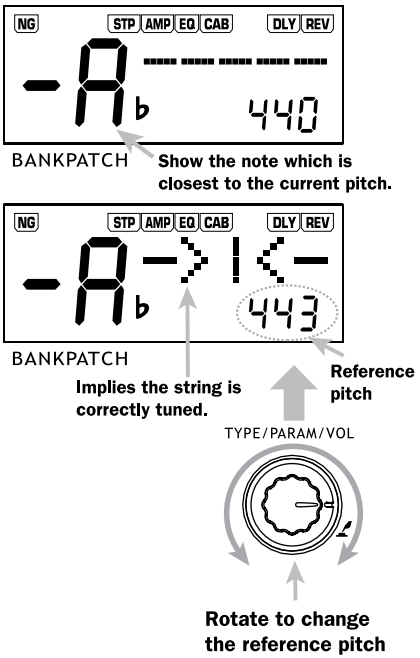
2. Press PATCH+ and PATCH- switches simultaneously to enter tuner mode. The LCD will display 'TUNER'.
   This also bypasses all effects.

   NOTE: You can tune your bass strings without the DBFX1 producing any sounds. Hold the two switches longer to enter the MUTE tuning mode. The LCD will display 'MUTE'.

3. The LCD will display the notes: A, B, C, D, E, F, G and ♭ Symbols ">" or "<" show the degree of flatness or sharpness. When the display shows >|<, the string is a correctly tuned.

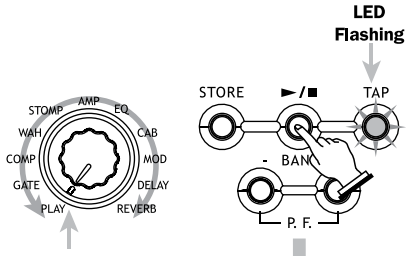
4. The tuner function will activate in bypass or mute status. Press PATCH+ or PATCH- to exit the tuner mode.

5. Dial the knob to change pitch. The default reference pitch is set to 440 Hz. (This is usually the "A" string on your bass.)

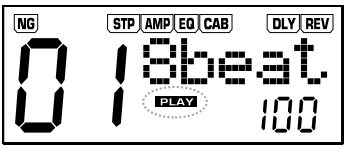


Drum

NOTE: The DBFX1 has a built-in rhythm function that plays realistic drum sounds.



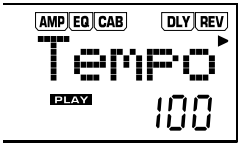
1. Dial the TYPE/PARAM/VOL knob to PLAY, press the ►/■ button, and the PLAY indicator will light up.



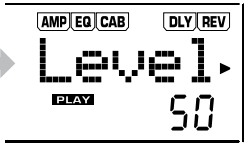
BANKPATCH

2. Press the TYPE/PARAM/VOL dial to adjust these parameters: rhythm pattern, tempo, and rhythm volume.

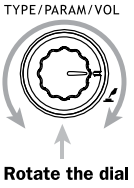
NOTE: If no action is taken within 8 seconds, the LCD will redisplay the patch name.

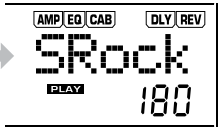


3. Dial the TYPE/PARAM/VOL knob to set the value of the parameter.



4. Press the ►/■ again to return to the previous status.



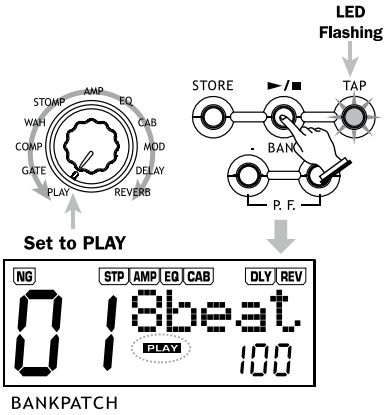


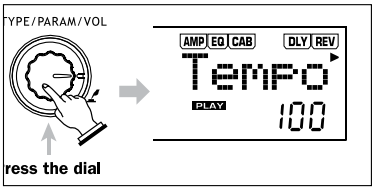
Tap

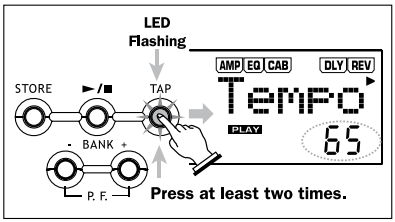
NOTE: The rhythm tempo can be adjusted from 40 to 250 BPM (beats per minute).

1. To change the rhythm tempo, turn the EFFECT SELECTION knob to PLAY. Then, continuously press the TYPE/PARAM/VOL knob until you reach the TEMPO parameter. Dial the knob to set the tempo.

2. To manually adjust the tempo, hit the TAP button at least twice to set the tempo.



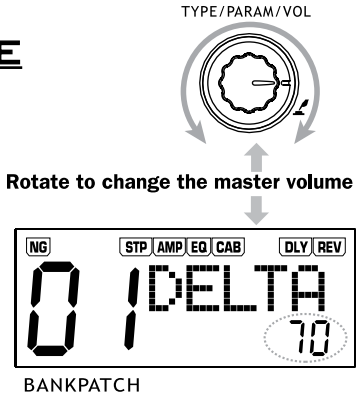




NOTE: The first tap of the TAP button will show the current tempo value on the LCD. The DBFX1 will then automatically detect the interval of the second and subsequent key-presses, setting the tempo accordingly.

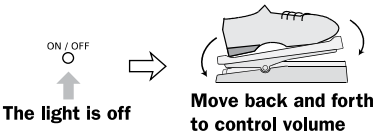
Master Volume

While in PLAY mode, rotate the TYPE/PARAM/VOL knob to adjust the master volume. The range is from 0 to 100. The default level is 70.

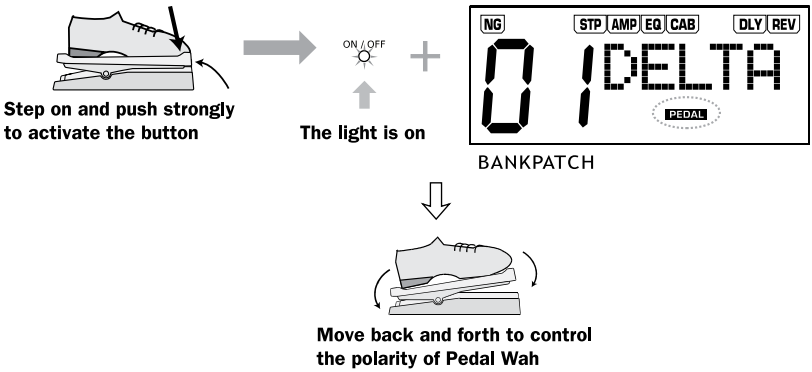


Expression Pedal

1. The pedal controls volume when the light is off. When the light is on, you can use the pedal to control the wah effect as a default or one of 7 other parameters as assigned by the user.



2. To activate the expression function, press down on the front of the pedal until it activates the switch underneath it.



Expression Pedal Functions

The expression pedal controls various parameters in real-time. To select which parameters it controls, make sure the EFFECT SELECT knob is at PLAY mode. Press the TYPE/PARAM/VOL knob, until “EXP” is displayed. To select the parameter, rotate the TYPE/PARAM/VOL knob:

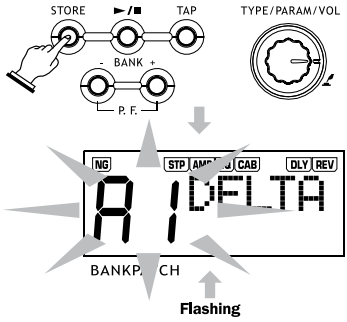
DISPLAY	FUNCTION	NOTE
UAH	Pedal wah	
S.dr	Stomp drive	Except for acoustic
A.g.	Amp gain	
PIU	EQ mid-frequency	Polarity up
PId	Polarity down	
PIH	Modulation pitch	
d.Fb	Delay feedback	
d.L	Delay level	
r.L.	Reverb level	

Press the TYPE/PARAM/VOL knob until “POLAR” is displayed. Rotate the TYPE/PARAM/VOL knob to choose whether the pedal’s polarity is normal or reverse.

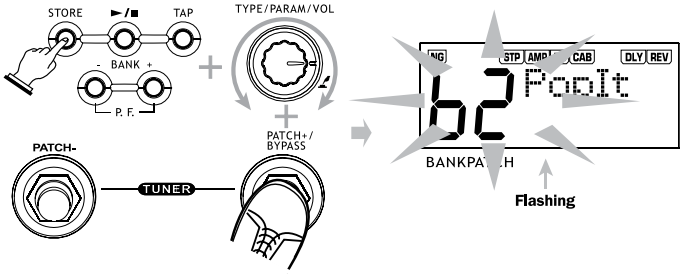
To switch back to normal operation, firmly press the pedal’s toe until it activates the pedal switch. This will put you back to pedal volume.

Storing Programs

1. After editing any of the effect programs, press the STORE button to save your custom program. The tone number and the patch name will flash on the display.

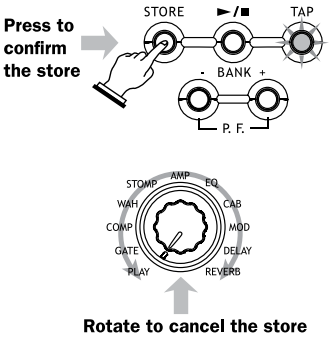


2. You can select the tone that you want to store by pressing BANK+/- or PATCH +/-. You can save user patches in banks A1–H6. To change the patch name, press the TYPE/PARAM/VOL dial to select the letter to be changed. Choose the new letter by dialing the knob.



3. Press the STORE button again to confirm.

4. At any time, you can cancel the edits to the patch and return to the original parameters by dialing the EFFECT SELECTION knob back to PLAY and selecting a new patch number.



SELECTING EFFECTS

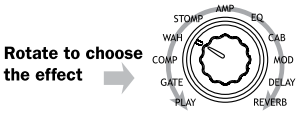
DBFX1 patches are made up of 11 linked effect modules as shown in the illustration below. You can use all effect modules together or individually.

Effect Module

NOISE GATE	COMP.	WAH	DISTORTION	AMP	EQ	SPEAKER	MODULATION	DELAY	REVERB	VOLUME
on/off	Comp 1 Comp 2 Comp 3 Slow Attack	Auto Touch Wah Auto Sweep Wah DeltaLab Pedal Wah	DeltaLab Bass Preamp DeltaLab Tube Overdrive US Classic Overdrive Deltlab Rock Distortion 60s Fuzz Distortion US Modern Bass Overdrive Bass Edge Distortion 70s Fuzz Distortion	1960s Tube Flip Top 1950s vintage tube combo 1970s Classic US Blue Solid State Head 1970s British Tube Bass Head 1970s US Tube Bass Head 1960s British Tube Bass Head 1970s Classic US Solid State Head Modern US Tube Bass Head	on/off	4x10 8x10 4x12H 4x12M 1x15 2x15 1x18A Folded Bass Cab	Sine Chorus Tri-Chorus Flange Step Flange Phase Step Phase Tremolo Pitch Shift Vibrato Clop Slice Octave Ring Modulator	Digital Delay Ping Pong Delay Multi-Head Delay Reversed Delay	Spring Room Hall Plate	

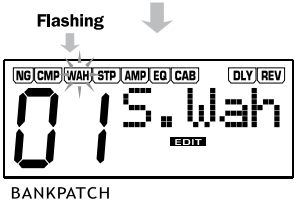
- **PLAY (you can change patch and set the rhythm)**
- **NOISE GATE**
- **COMPRESSOR**
- **WAH**
- **DISTORTION**
- **AMP SIMULATION**
- **EQ**
- **SPEAKER SIMULATOR**
- **MODULATION**
- **DELAY**
- **REVERB**

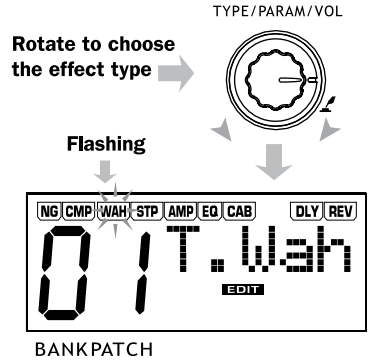
1 Dial the EFFECT SELECTION knob to choose the desired effect to be adjusted. It will be displayed on the LCD screen.



2 11 effects can be used simultaneously. The effect symbols across the top of the LCD screen indicate the status of each effect in the chain.

Symbol displayed = Effect is on.
Symbol is off = Effect is bypassed.
Symbol flashing = Effect is being edited.



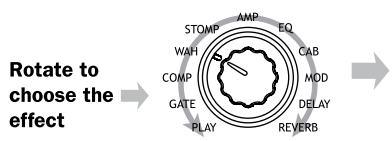


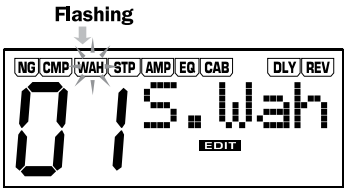
3 You can dial the TYPE/PARAM/VOL knob to adjust the desired effect.

4 If the EFFECT SELECT knob is not set to PLAY, the unit is in edit status. The EDIT symbol will be displayed.

Parameters

Adjusting Parameters

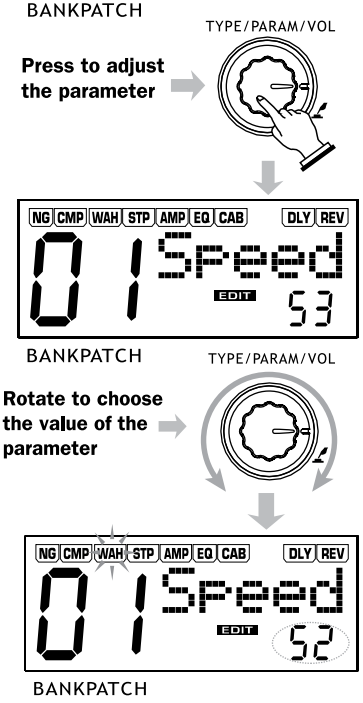




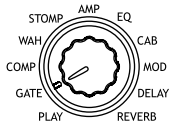
1 All parameter adjustments are performed by dialing the TYPE/PARAM/VOL knob.

2 Press the TYPE/PARAM/VOL knob to select the parameter you want to adjust. Each time the knob is pressed it will display a different parameter.

3 Dial the TYPE/PARAM/VOL knob to choose the parameter value.



Noise Gate

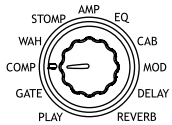


1. NOISE GATE eliminates noise below a certain threshold. It is most useful when not playing, completely eliminating noise, hum, and crackles. It does not affect the overall color of the tone.

2. Parameter 1 sets the signal strength (threshold) required to enable or disable the noise gate range from 0 (opens easily) to 100 (opens with a stronger input signal).

Type Name	LCD Display	Description	PARAM 1	PARAM 2	PARAM 3
Noise Gate	NG	Reduce Noise	Threshold	Release Time	Attack Time

Compressor



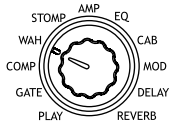
1. COMPRESSOR produces sustain or simple “smoothing” by compressing the signal so that the high levels are suppressed while raising low level signals.

2. The use of compression can enhance tone and articulation.

3. Parameter 1 is used to set the compressor threshold level. When the input signal exceeds this level, compression will be applied.

4. Parameter 2 determines the volume level.

Type Name	LCD Display	Description	PARAM 1	PARAM 2
Compression	COMP	Balances the high and low volume levels of the input	Threshold	Volume Level

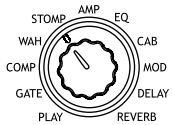


Wah

1. The wah effect creates a unique tone by filtering frequencies via the expression pedal.

2. Range: 0–100 (except for polarity, which will be displayed as Up or Down).

Type Name	LCD Display	Description	PARA 1	PARA 2	PARA 3
Auto Wah	T.Wah	Auto Wah	Sensitivity	Q	Grade
Sweep Wah	S.Wah	Sweep Wah	Speed	Q	/
Pedal Wah	P.Wah	Pedal Wah	Polarity	/	/



Stomp

1. This unit contains models of 8 popular distortion stompboxes, each of which can be tweaked just like the original model.

2. The distortion modules offer up to four parameters.

3. DRIVE controls the distortion level. LEVEL controls volume. TONE determines the brightness of the tone.

4. Drive parameters can be adjusted from 1 thru 100.

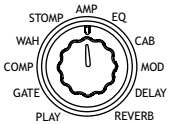
5. Tone parameters can be adjusted from –50 thru +50.

6. Volume parameters can be adjusted from 1 thru 100.

7. Mix parameters can be adjusted from 0 thru 100.

8. Balance parameters can be adjusted from 0 thru 100.

Stomp Type	LCD Display	Description	PARA 1	PARA 2	PARA 3	PARA 4
DeltaLab Preamp	DLPRE	The DeltaLab Preamp boosts the lows and highs yeilding a defined, rich sound	Level	/	/	/
DeltaLab Tube Overdrive	TUBED	Models DeltaLab Tube Overdrive	Drive	Tone	Level	/
US Overdrive	USAOD	Classic Overdirve w/ Tone and Mix	Drive	Tone	Mix	Level
DeltaLab Rock Distortion	ROCKD	Models DeltaLab Rock Distortion with higher gain and cut	Drive	Tone	Level	/
Vintage Fuzz	VFUZZ	Late 60s Fuzztone	Drive	Level	/	/
Modern Overdrive	MODOD	Modern Bass Overdrive	Drive	Balance	Tone Level	/
Edge Distortion	EDGED	Bass Distortion with a bit of edge	Drive	Tone	Level	/
Classic Fuzz	CFUZZ	70s Fuzz Distortion	Drive	Tone		/

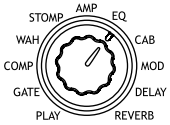


Amp Sim

❶ Amp Sim models the sound characteristics of several popular and vintage amps.

Type Name	LCD Display	Description	PARA 1	PARA 2	PARA 3
Vintage Flip Top	FLIPT	Vintage 1960s Tube Flip Top	Gain	Level	/
Vintage Tweed US	TWEED	Late 1950s Vintage Tube Combo	Gain	Level	/
Blue SS Head	USBLU	1970s Classic US Blue Solid State Head	Gain	Level	/
Classic British Tube Head	UK70T	1970s British Tube Bass Head	Gain	Level	/
Classic US Tube Head	US70T	1970s US Tube Bass Head	Gain	Level	/
Vintage British Tube head	UK60T	1960s British Tube Bass Head	Gain	Level	/
Classic US SS Head	US70S	1970s Classic US Solid State Head	Gain	Level	/
Modern Tube Head	US00T	Modern US Tube Bass Head	Gain	Level	/

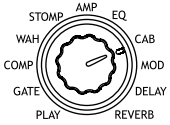
EQ



1. EQ shapes the bass, low-midrange, high-midrange and treble tones of the output signal.
2. Range of bass, midrange, and treble: 50–50.
3. Range of mid-freq: 0–100.

Type Name	LCD Display	Description	PARAM 1	PARAM 2	PARAM 3	PARAM 4
Equalizer	EQ	Adjust the tonal quality	Low	Low Mid	High Mid	High

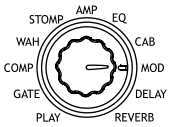
Speaker



1. Speaker simulation models various speaker sizes and cabinet configurations.

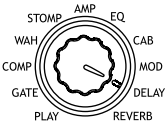
Number	LCD Display
1	4x10
2	8x10
3	4x12H
4	4x12M
5	1x15
6	2x15
7	1x18A
8	Folded Bass

Modulation



- Contains different effects, such as Chorus, Phaser, Flanger, Pitch Shifter, Vibrato, Auto Riff, Ring, Modulation, and more.
- The Chorus effect combines the delay time and amplitude modulation to thicken and add shimmer.
- Phase effect creates a whooshing and swirling sound.
- The Flanger effect creates a twisting, jet-airplane-like sound.
- A Pitch Shift copies the incoming signal, then shifts the pitch of the copied tones to a different note. The shifted note is then mixed back with the original tone. It will sound as if two basss were playing different notes in harmony.
- The Vibrato effect creates a slight pitch modulation.
- The Ring modulation effect creates a bell-like sound by modulating the input signal.

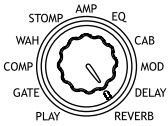
Type Name	LCD Display	PARAM 1	PARAM 2	PARAM 3	PARAM 4
Classic Chorus	Sinch	Rate	Pre delay	Depth	Level
Stereo Chorus	Trich	Rate	Pre delay	Depth	Level
Flanger	Flang	Rate	Depth	Feedback	—
Step Flanger	Stepf	Rate	Step	Feedback	Mix
Phaser	Phase	Rate	Depth	—	—
Random Phaser	Stepp	Rate	Peak	—	—
Tremolo	Tremo	Type	Speed	Depth	—
Pitch Shifter	Pitch	Pitch	Cent	Mix	—
Vibrato	Vibra	Rate	Depth	—	—
Clop Slice	Clop	Type	Speed	—	—
Octave	Octave	Direct	Oct1	Oct2	—
Auto Ring	Ring	Rate	Mix	—	—



Delay

· DELAY functions like an echo effect. You can adjust the delay time (the time between echoes) from 10 milliseconds to 4 seconds, the feedback (the volume level of the echo), and the level of effect.

Type Name	LCD Display	Description	PARAM 1	PARAM 2	PARAM 3
Full Range Delay	Delay	Delay from 10ms to 4000ms	Time	Feedback	Level
Ping Pong Delay	PPD	Stereo delay	Time	Feedback	Level
Multi Head Delay	MD	Multi tap delay	Time	Feedback	Level
Reversed Delay	RD	Reverse delay	Time	Feedback	Level



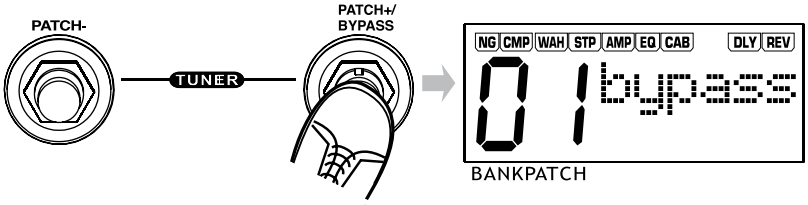
Reverb

· Reverberation is the warm musical ambience from listening to music in a hall or other natural environments. The unit offers several different reverb effects, simulating different types of reverberations as if you are experiencing a hall or a small room.

Type Name	LCD Display	Description	PARAM 1	PARAM 2	PARAM 3
Spring	Spring	Classical spring	Time	Density	Level
Room Reverb	Room	Room reverb	Time	Density	Level
Hall Reverb	Hall	Hall reverb	Time	Density	Level
Plate Reverb	Plate	Metal plate reverb	Time	Density	Level

Individual Effect Bypass

1. Press the PATCH+/BYPASS switch, the effect is bypassed.
2. Press the PATCH+/BYPASS switch one more time to turn the bypass function off.



Specifications

AD Conversion
32 bit, 64x oversampling

DA Conversion
32 bit, 128x oversampling

Sampling Rate
48kHz

Display
5 characters (backlit LCD)
5 BCD

Patches
48 user and 48 default

Effect Types
54

Effect Modules
11

Connections
Input jack
Phones/Output jack
AC in jack

Controls
Store button
Back +/- button
Tap button
▶/■ button
Effect Selection knob
Type/Param/Vol knob
Patch +/- foot switches
Expression pedal
Power switch

Weight
885g (excluding AC adaptor)

Dimensions
Length 255mm x Width 162mm x Height 60mm

Power supply
DC 9V negative center

Warranty

One (1) Year Limited Warranty and Remedies.

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